

Appendix D

Data Sources

Table D-1. Monitoring Data Sources

Index	Data Source	Location	Station ID	Years Compiled	Purpose
Hydrology/Hydraulics					
1	United States Geological Survey (USGS) ¹	San Juan Creek	11046530	01/1991-12/2002	Average daily flows on wet days used for calibration and validation of wet-weather modeled streamflows in Bacteria TMDL Project I.
			11047300	10/1995-04/2002	
2	National Oceanic and Atmospheric Administration-Center for Operational Oceanographic Products and Services (NOAA-COOPS)	San Diego Bay	9410230	01/2001-12/2002	Water elevation data used in determination of open ocean boundary conditions for the hydrodynamic model.
		San Diego Bay, Dana Point Harbor	9410170	01/2001-12/2002	Water surface elevation data used in calibration of San Diego bay hydrodynamic model and in determination of open ocean boundary conditions for the Dana point harbor hydrodynamic model.
Water Quality					
3	Orange County Public Health Laboratory (SDRWQCB, 2002)	San Juan Creek	SJ13	4/2001-7/2001	Development of multi-variable regression equations for prediction of dry-weather bacteria levels in Bacteria TMDL Project I.
			SJ14, SJ15, SJ16, SJ19, SJ20, SJ21, SJ29, SJ32	5/2001-7/2001	
			SJ01, SJ04, SJ05, SJ24	4/2001-7/2001	Validation of dry-weather model for bacteria levels in Bacteria TMDL Project I.
			SJ15, SJ17, SJ18, SJ29	5/2001-7/2001	
			SJ02, SJ09, SJ10, SJ12, SJ13, SJ25, SJ30	5/2001-12/2001	Validation of wet weather water quality predictions in Bacteria TMDL Project I.
		Dana Point Harbor – Baby Beach	BDP12, BDP13, BDP14, BDP15	11/1996-10/2002	Calibration and validation of water quality predictions by the hydrodynamic model.
4	County of San Diego (2004)	San Diego Bay - Shelter Island Shoreline Park	EH-200	3/1999-2/2004	Calibration and validation of water quality predictions by the hydrodynamic model.
		San Diego Bay - Tidelands Park	EH-070		
5	SCRIPPS Institution of Oceanography (SCRIPPS)	San Diego Bay	#091, #095	1/2001-12/2002	Continuous surface temperature data used in determination of open ocean boundary conditions for the hydrodynamic model.
		Dana Point Harbor	#096	1/2001-12/2002	
6	Port of San Diego	San Diego Bay Dana Point Harbor	3	3/2001-12/2001 1/2002-2/2002	Salinity measurements used for determination of open ocean boundary conditions for the hydrodynamic model.

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Index	Data Source	Location	Station ID	Years Compiled	Purpose
Water Quality (Cont'd)					
7	Space and Naval Warfare Systems (SPAWAR)	San Diego Bay	1 through 27	1/2000-8/2002	Salinity and temperature measurements used for calibration and validation of the hydrodynamic model.
8	National Oceanographic and Atmospheric Administration-Center for Operational Oceanographic Products and Services (NOAA-COOPS)	San Diego Bay Dana Point Harbor	9410170	1/2001-12/2002	Water column temperature data used in calibration of San Diego bay hydrodynamic model and in determination of lateral ocean boundary conditions for the Dana point harbor hydrodynamic model.
Meteorological data					
9	National Oceanographic and Atmospheric Administration-National Climatic Data Center (NOAA-NCDC)	San Diego Bay	CA7740	1/1990-5/2004	Hourly rainfall data used for hydrologic and water quality modeling for wet-weather conditions.
		Dana Point Harbor	CA4650		
9	National Oceanographic and Atmospheric Administration-National Climatic Data Center (NOAA-NCDC)	San Diego Bay Dana Point Harbor	COOP ID #047740	1/1990-5/2004	Temperature, humidity, wind speed and direction, atmospheric pressure, and cloud cover data used for setting the initial surface conditions of hydrodynamic model.
10	Automatic Local Evaluation in Real-Time (ALERT) Flood Warning System	San Diego Bay	31	1/1990-5/2004	Hourly rainfall data used for hydrologic and water quality modeling for wet-weather conditions.
11	California Irrigation Management Information System (CIMIS)	San Diego Bay Dana Point Harbor	CIMIS74	1990-2004	Hourly rainfall, evaporation data used for hydrologic and water quality modeling for wet-weather conditions
Bathymetric Data					
12	California Spatial Information Library (CASIL)	San Diego Bay Dana Point Harbor	-	-	Bathymetric data used for hydrodynamic and water quality simulation.

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Table D-2. GIS Data Sources

Index	Data Type	Data Source	Years Compiled	Purpose
13	Storm Drain network	City of San Diego, City of Chula Vista, City of Coronado	-	To derive streams and watershed boundaries
14	Land Use	San Diego's Regional Planning Agency (SANDAG)	2001	Designation of Land uses in the region.
		Southern California Association of Governments (SCAG)	2000	
15	Soils	USDA-NRCS (STATSGO)	1994	STATSGO soil data used for watershed modeling.
16	Topographic and digital elevation models (DEMs)	USEPA BASINS, USGS ¹	-	To derive streams and watershed boundaries.

¹ www.usgs.gov